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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,845	03/12/2004	Rong-Ming Ho	UCL0301	8486
22192	7590	05/04/2005	EXAMINER	
LAW OFFICE OF LIAUH & ASSOC. 4224 WAIALAE AVE STE 5-388 HONOLULU, HI 96816				MULLIS, JEFFREY C
ART UNIT		PAPER NUMBER		
		1711		

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

15 ML

Office Action Summary	Application No.	Applicant(s)	
	10/799,845	HO ET AL.	
	Examiner	Art Unit	
	Jeffrey C. Mullis	1711	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 August 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 1711

Applicants have failed to place a proper claim for domestic priority in the first sentence of the specification.

Claims 19 and 20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification as filed discloses nothing about how to produce block copolymers having a plurality of first polymer blocks and a plurality of second polymer blocks and claims 19 and 20 are therefore not enabled and fail to provide a written description .

Claims 1-18 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 20 requires plural first and plural second polymer blocks and the diblock copolymer of claim 20 therefore lacks antecedent basis in claim 19.

The “said chiral block copolymer” of claim 1, “said objected” in claim 10 lack antecedent basis within these claims.

The “said first polymer” and “said second polymer” in at least claims 2 and therefore lack antecedent basis in preceding claims.

The moieties “EDBP” and superscript n Bu are not art recognized and therefore unclear. Furthermore if “Bu” is meant to be butyl it is not clear how the prefix neda 3 applies.

Art Unit: 1711

The poly(styrene)-poly(L-lactide) of at least claim 9 lacks antecedent basis in any preceding claim.

At least claims 11 and 17 depends from themselves and is therefore unclear.

The "said poly(L-lactide)" of at least claim 4 lacks antecedent basis in any preceding claim.

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-6 and 9-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Zalusky et al. JACS, 2001 ,123,1519-1520.

Zalusky discloses a block copolymer containing polystyrene blocks and a block containing mixtures of D and L lactic acid residues (chiral units).. Note Figure 2 for a SEM of the material after hydrolysis (a process leaving voids where the lactic acid residue containing block microdomains were) showing voids at far under 100 nm and thus the block copolymer had nanoscale microstructures in the form of microdomains prior to hydrolysis.

Claims 1, 4-6 and 9-19 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Choi et al. (US 6,210,717).

Choi et al. In Examples 1 and 2 disclose a block copolymer having L-lactic residues as one block. As block copolymers generally exhibit microphase separation, formation of microstructures in the form of microdomains would be inherent in the block copolymer production process. With regard to applicants' remaining characteristics, all features of the polymer of the claims are present explicitly except for characteristics and applicants' characteristics are therefore presumed inherent.

When the reference discloses all the limitations of a claim except a property or function, and the Examiner cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention, basis exists for shifting the burden of proof to applicant. Note In re Fitzgerald et al., 619 F. 2d 67, 70, 205 USPQ 594, 596, (CCPA 1980). See MPEP § 2112-2112.02.

Claims 1 rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Park et al. (US 6,517,869).

Park et al. In Example 7 disclose a block copolymer having L-lactic residues as one block. As block copolymers generally exhibit microphase separation, formation of microstructures in the form of microdomains would be inherent in the block copolymer production process. With regard to applicants' remaining characteristics, all features of

Art Unit: 1711

the polymer of the claims are present explicitly except for characteristics and applicants' characteristics are therefore presumed inherent.

When the reference discloses all the limitations of a claim except a property or function, and the Examiner cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention, basis exists for shifting the burden of proof to applicant. Note In re Fitzgerald et al. 619 F. 2d 67, 70, 205 USPQ 594, 596, (CCPA 1980). See MPEP § 2112-2112.02.

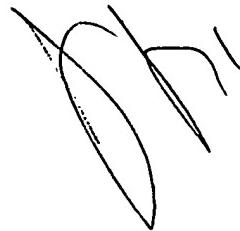
Any inquiry concerning this communication should be directed to Jeffrey C. Mullis at telephone number 571 272 1075.

Jeffrey C. Mullis
J Mullis
Art Unit 1711

JCM

2-28-05

Jeffrey Mullis
Primary Examiner
Art Unit 1711

A handwritten signature in black ink, appearing to read "JM" followed by a stylized surname.